

**Flood Control Project Maintenance**  
**Levee Inspections**

**Fall 2012 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including USACE Erosion Survey**

**Sacramento River Basin**

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<b>RD1001</b> <b>Reclamation District No. 1001 Nicolaus</b>	Overall LMA Rating	Total LMA Miles						
	<b>U</b>	<b>44.03</b>						
	Maintenance Deficiency					Enforcement	Design & System Obsolescence	
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	20.66		20.66	46.92%	0.20	0.04		
Trim / Thin Trees	0.17		0.17	0.39%				
Encroachments	0.02		0.02	0.05%	3.07	0.29		
Slope Stability	0.05		0.05	0.11%				
Erosion / Bank Caving	0.01		0.01	0.02%				
<i>Supplemental</i>								
USACE Erosion Survey	1.94		1.94	4.41%				
<i>Unit Totals:</i>	<b>22.85</b>	<b>0.00</b>	<b>22.85</b>	<b>51.90%</b>	<b>3.27</b>	<b>0.33</b>	<b>0.00</b>	<b>0.00</b>
<b>Unit No. 01 Yankee Slough RB</b> RD1001	Overall Unit Rating	Total Unit Miles						
	<b>A</b>	<b>4.17</b>						
	Maintenance Deficiency					Enforcement	Design & System Obsolescence	
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation					0.06	0.01		
Encroachments	0.01		0.01	0.24%				
<i>Unit Totals:</i>	<b>0.01</b>	<b>0.00</b>	<b>0.01</b>	<b>0.24%</b>	<b>0.06</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>
<b>Unit No. 02 Yankee Slough LB</b> RD1001	Overall Unit Rating	Total Unit Miles						
	<b>A</b>	<b>3.66</b>						
	Maintenance Deficiency					Enforcement	Design & System Obsolescence	
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation					0.03	0.01		
Trim / Thin Trees	0.01		0.01	0.27%				
Encroachments					0.26	0.02		
Erosion / Bank Caving	0.01		0.01	0.27%				
<i>Supplemental</i>								
USACE Erosion Survey	0.03		0.03	0.82%				
<i>Unit Totals:</i>	<b>0.05</b>	<b>0.00</b>	<b>0.05</b>	<b>1.37%</b>	<b>0.29</b>	<b>0.03</b>	<b>0.00</b>	<b>0.00</b>
<b>Unit No. 03 Bear River LB</b> RD1001	Overall Unit Rating	Total Unit Miles						
	<b>U</b>	<b>12.60</b>						
	Maintenance Deficiency					Enforcement	Design & System Obsolescence	
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	15.93		15.93	126.43%	0.08			
Trim / Thin Trees	0.15		0.15	1.19%				
Encroachments	0.01		0.01	0.08%	1.03	0.26		
Slope Stability	0.03		0.03	0.24%				
<i>Supplemental</i>								
USACE Erosion Survey	0.30		0.30	2.38%				
<i>Unit Totals:</i>	<b>16.42</b>	<b>0.00</b>	<b>16.42</b>	<b>130.32%</b>	<b>1.11</b>	<b>0.26</b>	<b>0.00</b>	<b>0.00</b>

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**Overall LMA & Unit Ratings, including USACE Erosion Survey**

**Sacramento River Basin (cont.)**

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<b>Unit No. 04 Feather River LB</b>	Overall Unit Rating	Total Unit Miles						
	<b>U</b>	<b>13.36</b>						
<b>Rated Item</b>	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	4.73		4.73	35.40%	0.02	0.02		
Trim / Thin Trees	0.01		0.01	0.08%				
Encroachments					0.03	0.01		
<i>Supplemental</i>								
USACE Erosion Survey	1.60		1.60	11.98%				
<i>Unit Totals:</i>	6.34	0.00	6.34	47.46%	0.05	0.03	0.00	0.00

<b>Unit No. 05 Natomas Cross Canal RB</b>	Overall Unit Rating	Total Unit Miles						
	<b>A</b>	<b>5.44</b>						
<b>Rated Item</b>	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments					1.71			
<i>Supplemental</i>								
USACE Erosion Survey	0.01		0.01	0.18%				
<i>Unit Totals:</i>	0.01	0.00	0.01	0.18%	1.71	0.00	0.00	0.00

<b>Unit No. 06 East Side Canal RB</b>	Overall Unit Rating	Total Unit Miles						
	<b>A</b>	<b>4.80</b>						
<b>Rated Item</b>	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation					0.01			
Encroachments					0.04			
Slope Stability	0.02		0.02	0.42%				
<i>Unit Totals:</i>	0.02	0.00	0.02	0.42%	0.05	0.00	0.00	0.00

**Flood Control Project Maintenance  
Levee Inspections**

**LMA District Cover Sheet**

**Fall 2012 Levee Inspection Results**

**Reclamation District No. 1001 Nicolaus**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			U	

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\*

SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2012 Levee Inspection Results**

**Reclamation District No. 1001 Nicolaus**

Waterway			Bank	Unit Miles
Unit No. 01 Yankee Slough			Right	4.17
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	05/22/2012 - 05/22/2012		10/10/2012 - 10/10/2012	
DWR Inspector	Rick Burnett		Clay Thomas	
Accompanied By	Diane Fales		Diane Fales	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

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If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance**  
**Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
L/MR No.	Levee Mile		Category	Item	* Location	* Rating	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End								Start	End
1	Earthen Levee	Emergency Supplies & Equipment	LS A	Ma						°	° 1
2	Earthen Levee	Flood Preparedness & Training	LS A	Ma						°	° 2
3	Earthen Levee	Operations & Maintenance Manuals	LS A	Ma						°	° 3
4	0.48 3.78	Earthen Levee	Vegetation	LS A	V2 : Remove the wild growth other than native grasses Ma from the levee slopes.					38.975444 ° 38.966209 ° 6 -121.476169 ° -121.531886 ° Y	DWR ID: DWR_RD1001_01_f_2012_6
5	0.48 3.78	Earthen Levee	Vegetation	WS A	V2 : Remove the wild growth other than native grasses Ma from the levee slopes.					38.975444 ° 38.966209 ° 8 -121.476169 ° -121.531886 ° Y	DWR ID: DWR_RD1001_01_f_2012_8
6	0.96 0.96	Earthen Levee	Vegetation	LS U	V6 : Landscaping En					38.974569 ° 38.974569 ° 15 -121.484815 ° -121.484815 °	DWR ID: DWR_RD1001_01_s_2012_15
7	2.99 2.99	Earthen Levee	Encroachments	LS M	DE : Debris Ma					38.966849 ° 38.966849 ° 7 -121.518785 ° -121.518785 ° Y	DWR ID: DWR_RD1001_01_s_2012_7
8	3.16 3.22	Earthen Levee	Vegetation	LS M	V6 : Landscaping En					38.965663 ° 38.965705 ° 5 -121.521023 ° -121.522098 ° Y	DWR ID: DWR_RD1001_01_s_2012_5

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating	+ Issue Type
A : Acceptable	Ma : Maintenance Deficiency
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.17	10/10/2012 10/10/2012	Clay Thomas

Levee Mile Report Line	4
Start Levee Mile	0.48
End Levee Mile	3.78
Location	Land Side
Category	Earthen Levee
Item	Vegetation

This photo is the landside slope at levee mile 3.78.

cathom\_f\_20121106\_234.JPG



Levee Mile Report Line	5
Start Levee Mile	0.48
End Levee Mile	3.78
Location	Water Side
Category	Earthen Levee
Item	Vegetation

This photo is the waterside slope at levee mile 3.78.

cathom\_f\_20121106\_233.JPG



Levee Mile Report Line	7
Start Levee Mile	2.99
End Levee Mile	2.99
Location	Land Side
Category	Earthen Levee
Item	Encroachments

RD 1001 Unit 1 -L/S - Debris

cathom\_f\_20120912\_098.JPG



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.17	10/10/2012 10/10/2012	Clay Thomas

Levee Mile Report Line	8
Start Levee Mile	3.16
End Levee Mile	3.22
Location	Land Side
Category	Earthen Levee
Item	Vegetation
RD 1001 Unit 1 - Landscaping	
cathom_f_20120912_096.JPG	



Levee Mile Report Line	8
Start Levee Mile	3.16
End Levee Mile	3.22
Location	Land Side
Category	Earthen Levee
Item	Vegetation
RD 1001 Unit 1 - L/S - Landscaping	
cathom_f_20120912_097.JPG	



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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2012 Levee Inspection Results**

**Reclamation District No. 1001 Nicolaus**

Waterway			Bank	Unit Miles
Unit No. 02 Yankee Slough			Left	3.66
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	05/22/2012 - 05/22/2012		10/10/2012 - 10/10/2012	
DWR Inspector	Rick Burnett		Clay Thomas	
Accompanied By	Diane Fales RD 1001		Diane Fales RD 1001	

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Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End		
1	0.04	3.65	Earthen Levee	Vegetation	WS Ma	A	V2 : Remove the wild growth other than native grasses from the levee slopes.  Inspector Comments: This levee was being mowed as I inspected it.	38.971223 ° -121.474024 °	38.965592 ° -121.533172 °	2 Y	
2	0.04	3.65	Earthen Levee	Vegetation	LS Ma	A	V2 : Remove the wild growth other than native grasses from the levee slopes.  Inspector Comments: This levee was being mowed as I inspected it.	38.971223 ° -121.474023 °	38.965591 ° -121.533172 °	1 Y	
3	0.52	0.52	Earthen Levee	Encroachments	LS En	M	DE : Debris	38.974325 ° -121.480495 °	38.974325 ° -121.480495 °	5	
4	0.54	0.54	Earthen Levee	Encroachments	LS En	M	EQ : Equipment	38.974388 ° -121.480708 °	38.974375 ° -121.480222 °	48 Y	
5	0.58	0.58	Earthen Levee	Encroachments	LS En	M	PR : Prunings	38.974323 ° -121.481754 °	38.974323 ° -121.481754 °	15 Y	
6	0.67	0.67	Earthen Levee	Vegetation	LS En	M	V6 : Landscaping	38.974198 ° -121.483150 °	38.974198 ° -121.483150 °	16 Y	
7	0.78	0.78	Earthen Levee	Trim / Thin Trees	LS Ma	M	T1 : Trim trees to at least five feet above ground level.	38.973662 ° -121.485113 °	38.973662 ° -121.485113 °	49 Y	
8	0.81	0.81	Earthen Levee	Encroachments	LS En	U	DE : Debris	38.973605 ° -121.485728 °	38.973605 ° -121.485728 °	7 Y	
9	1.24	1.24	Earthen Levee	Encroachments	LS En	C	DE : Debris	38.970687 ° -121.492392 °	38.970687 ° -121.492392 °	50 Y	
10	1.34	1.34	Earthen Levee	Erosion / Bank Caving	LS Ma	M	E2 : Schedule repair of erosion site prior to the next inspection.	38.969865 ° -121.493887 °	38.969865 ° -121.493887 °	51 Y	
11	1.36	1.39	Supplemental USACE Erosion Survey	WS Ma	M		Inspector Comments: 2011 - New erosion site. Steep eroding slope. Fairly old scarp with vegetation growth. 2012: Site is part of the extended inventory, last inspected 2011. [2012 Site ID: YAS_1-7_L]	38.969740 ° -121.494327 °	38.969640 ° -121.494829 °	4	
12	1.77	1.77	Earthen Levee	Vegetation	LS En	U	V6 : Landscaping	38.970353 ° -121.501935 °	38.970353 ° -121.501935 °	10 Y	
13	1.78	1.78	Earthen Levee	Encroachments	LS En	U	BU : Building	38.970347 ° -121.502027 °	38.970347 ° -121.502027 °	11 Y	
14	1.79	1.81	Earthen Levee	Vegetation	LS En	M	V6 : Landscaping	38.970347 ° -121.502177 °	38.970327 ° -121.502618 °	12 Y	

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating

A : Acceptable  
M : Minimally Acceptable  
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A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End								Start	Photo
15	2.32	2.55	Earthen Levee	Encroachments	LS En	M	DT : Ditch			38.967402 ° -121.510850 °	38.967515 ° -121.515270 °
										Y	DWR ID: DWR_RD1001_02_s_2012_52

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.66	10/10/2012 10/10/2012	Clay Thomas

Levee Mile Report Line	1
Start Levee Mile	0.04
End Levee Mile	3.65
Location	Water Side
Category	Earthen Levee
Item	Vegetation
This photo is of the waterside slope at levee mile 0.92.	
cathom_f_20121128_238.JPG	



Levee Mile Report Line	2
Start Levee Mile	0.04
End Levee Mile	3.65
Location	Land Side
Category	Earthen Levee
Item	Vegetation
This photo shows the landside slope at levee mile 0.92.	
cathom_f_20121128_239.JPG	



Levee Mile Report Line	4
Start Levee Mile	0.54
End Levee Mile	0.54
Location	Land Side
Category	Earthen Levee
Item	Encroachments
RD 1001 Unit 2 - L/S - Equipment, Old pipes and pump	
cathom_f_20120912_104.JPG	



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**Flood Control Project Maintenance**  
**Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.66	10/10/2012 10/10/2012	Clay Thomas

Levee Mile Report Line	5
Start Levee Mile	0.58
End Levee Mile	0.58
Location	Land Side
Category	Earthen Levee
Item	Encroachments
RD 1001 Unit 2 - L/S - Prunning Piles	
cathom_f_20120912_102.JPG	



Levee Mile Report Line	6
Start Levee Mile	0.67
End Levee Mile	0.67
Location	Land Side
Category	Earthen Levee
Item	Vegetation
RD 1001 Unit 2 - L/S - Landscaping - Cactus and fruit trees	
cathom_f_20120912_103.JPG	



Levee Mile Report Line	7
Start Levee Mile	0.78
End Levee Mile	0.78
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
RD 1001 Unit 2 - L/S - Trim Tree	
cathom_f_20120912_105.JPG	



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**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.66	10/10/2012 10/10/2012	Clay Thomas

Levee Mile Report Line	8
Start Levee Mile	0.81
End Levee Mile	0.81
Location	Land Side
Category	Earthen Levee
Item	Encroachments
RD 1001 Unit 2 - L/S - Prunning Piles	
cathom_f_20120912_099.JPG	



Levee Mile Report Line	10
Start Levee Mile	1.34
End Levee Mile	1.34
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving
RD 1001 Unit 2 - L/S -Erosion @ pipe.	
cathom_f_20120912_107.JPG	



Levee Mile Report Line	12
Start Levee Mile	1.77
End Levee Mile	1.77
Location	Land Side
Category	Earthen Levee
Item	Vegetation
RD 1001 Unit 2 - L/S -Landscaping - Trees	
cathom_f_20120912_100.JPG	



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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.66	10/10/2012 10/10/2012	Clay Thomas

Levee Mile Report Line	13
Start Levee Mile	1.78
End Levee Mile	1.78
Location	Land Side
Category	Earthen Levee
Item	Encroachments
RD 1001 Unit 2 - L/S -Building @ toe.	
cathom_f_20120912_101.JPG	



Levee Mile Report Line	15
Start Levee Mile	2.32
End Levee Mile	2.55
Location	Land Side
Category	Earthen Levee
Item	Encroachments
RD 1001 Unit 2 - L/S - Drainage Ditch @ toe.	
cathom_f_20120912_108.JPG	



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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2012 Levee Inspection Results**

**Reclamation District No. 1001 Nicolaus**

Waterway			Bank	Unit Miles
Unit No. 03 Bear River			Left	12.60
	Spring (March - May)	Summer (June - August)	(September - November) <b>Fall</b>	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>U</b>	
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DWR Inspector	Rick Burnett		Clay Thomas	
Accompanied By	Diane Fales		Diane Fales	

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If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance**  
**Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
L/MR No	Levee Mile		Category	Item	* Location Start	* Rating +	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End					Start	End	Photo		
1	Earthen Levee	Vegetation	WS Ma	C	V1 : Control annual grass and weeds on the levee slopes and easements.		38.965382 ° -121.544193 °	° °	20	DWR ID: DWR_RD1001_03_f_2012_20	
2	0.10	0.10	Earthen Levee	Slope Stability	LS Ma	M	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	39.006452 ° -121.377117 °	39.006452 ° -121.377117 °	55	Y
										DWR ID: DWR_RD1001_03_s_2012_55	
3	0.14	6.66	Earthen Levee	Vegetation	WS Ma	M	V1 : Control annual grass and weeds on the levee slopes and easements.	39.006359 ° -121.377421 °	38.983722 ° -121.490226 °	2	Y
										DWR ID: DWR_RD1001_03_f_2012_2	
4	0.14	7.30	Earthen Levee	Vegetation	LS Ma	M	V1 : Control annual grass and weeds on the levee slopes and easements.	39.006358 ° -121.377422 °	38.982580 ° -121.501894 °	1	Y
										DWR ID: DWR_RD1001_03_f_2012_1	
5	1.06	1.06	Earthen Levee	Slope Stability	WS Ma	M	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	39.006188 ° -121.394420 °	39.006188 ° -121.394420 °	5	Y
										DWR ID: DWR_RD1001_03_s_2012_5	
6	1.10	1.10	Earthen Levee	Trim / Thin Trees	WS Ma	C	T1 : Trim trees to at least five feet above ground level.	39.006033 ° -121.395002 °	39.006033 ° -121.395002 °	56	
										DWR ID: DWR_RD1001_03_s_2012_56	
7	1.21	1.77	Earthen Levee	Encroachments	WS En	M	PO : Pole	39.005316 ° -121.397026 °	38.999814 ° -121.404346 °	3	Y
										DWR ID: DWR_RD1001_03_s_2012_3	
8	1.47	1.47	Earthen Levee	Slope Stability	WS Ma	M	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Crown subsidence	39.002802 ° -121.400278 °	39.002802 ° -121.400278 °	4	Y
										DWR ID: DWR_03_s_2012_4	
9	2.96	3.32	Earthen Levee	Encroachments	WS En	M	PR : Prunings	38.994338 ° -121.424277 °	38.992653 ° -121.430512 °	57	Y
										DWR ID: DWR_RD1001_03_s_2012_57	
10	3.54	3.54	Earthen Levee	Vegetation	LS Ma	M	V4 : Elderberries are blocking visibility and flood fight capability.	38.991745 ° -121.434398 °	38.991745 ° -121.434398 °	906	Y
										DWR ID: DWR_RD1001_03_s_2012_906	
11	3.80	3.96	Earthen Levee	Encroachments	LS En	U	DE : Debris	38.991225 ° -121.439192 °	38.991194 ° -121.442173 °	8	Y
										DWR ID: DWR_RD1001_03_s_2012_8	
12	3.85	3.85	Earthen Levee	Encroachments	LS En	U	DE : Debris	38.991206 ° -121.440041 °	38.991206 ° -121.440041 °	6	Y
										DWR ID: DWR_RD1001_03_f_2012_6	
13	4.05	4.11	Earthen Levee	Encroachments	LS En	M	MA : Material	38.991299 ° -121.443830 °	38.991413 ° -121.444865 °	7	
										DWR ID: DWR_RD1001_03_s_2012_7	
14	4.12	4.20	Earthen Levee	Vegetation	LS En	M	V6 : Landscaping	38.991442 ° -121.445035 °	38.991646 ° -121.446522 °	13	Y
										DWR ID: DWR_RD1001_03_s_2012_13	
15	4.14	4.14	Earthen Levee	Encroachments	LS Ma	M	MA : Material	38.991479 ° -121.445398 °	38.991479 ° -121.445398 °	9	
										DWR ID: DWR_RD1001_03_s_2012_9	

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
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U : Unacceptable
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance**  
**Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
MR No	Levee Mile		Category	Item	* Location +	* Rating +	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End		
16	4.29	4.29	Earthen Levee	Encroachments	LS En	M	DE : Debris	38.991981 °	38.991981 °	17	
								-121.447995 °	-121.447995 °	Y	
								DWR ID: DWR_RD1001_03_s_2012_17			
17	4.50	4.59	Earthen Levee	Encroachments	LS En	U	PR : Prunings	38.991862 °	38.991703 °	16	
								-121.451922 °	-121.453495 °	Y	
								DWR ID: DWR_RD1001_03_s_2012_16			
18	4.68	4.68	Earthen Levee	Vegetation	LS Ma	M	V4 : Elderberries are blocking visibility and flood fight capability.	38.991513 °	38.991513 °	58	
								-121.455220 °	-121.455220 °	Y	
								DWR ID: DWR_RD1001_03_s_2012_58			
19	4.71	4.71	Earthen Levee	Encroachments	LS En	M	PR : Prunings	38.991413 °	38.991413 °	12	
								-121.455866 °	-121.455866 °		
								DWR ID: DWR_RD1001_03_s_2012_12			
20	4.85	4.85	Earthen Levee	Vegetation	LS Ma	M	V4 : Elderberries are blocking visibility and flood fight capability.	38.990773 °	38.990773 °	910	
								-121.458203 °	-121.458203 °	Y	
								DWR ID: DWR_RD1001_03_s_2012_910			
21	4.99	4.99	Earthen Levee	Encroachments	LS En	M	PR : Prunings	38.990000 °	38.990000 °	14	
								-121.460597 °	-121.460597 °		
								DWR ID: DWR_RD1001_03_s_2012_14			
22	5.25	5.25	Earthen Levee	Encroachments	LS En	M	PR : Prunings	38.988676 °	38.988676 °	15	
								-121.465012 °	-121.465012 °		
								DWR ID: DWR_RD1001_03_s_2012_15			
23	6.50	6.50	Earthen Levee	Slope Stability	LS Ma	C	S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.	38.984027 °	38.984027 °	59	
								-121.487238 °	-121.487238 °		
								DWR ID: DWR_RD1001_03_s_2012_59			
24	7.21	7.30	Supplemental USACE Erosion Survey	WS Ma	M	Inspector Comments: 2008 - Sandy/silty banks with rotational slab failures creating near vertical bank with pop-outs due to tree failures. Narrow berm. 2012: No observed change. [2012 Site ID: BER_5-7_L]	38.982737 °	38.982572 °	10		
								-121.501144 °	-121.502797 °	Y	
								DWR ID:			
25	10.36	12.54	Earthen Levee	Vegetation	LS Ma	M	V1 : Control annual grass and weeds on the levee slopes and easements.	38.965382 °	38.942417 °	18	
								-121.544192 °	-121.566845 °		
								DWR ID: DWR_RD1001_03_f_2012_18			
26	10.37	10.41	Supplemental USACE Erosion Survey	WS Ma	M	Inspector Comments: 2011 - Large section of bank has slumped off. RD has flagged and appears to be watching. 2012: No observed change. [2012 Site ID: BER_2-5_L]	38.964583 °	38.964010 °	11		
								-121.544967 °	-121.545228 °	Y	
								DWR ID:			
27	11.09	11.17	Supplemental USACE Erosion Survey	WS Ma	M	Inspector Comments: 2011 - Large slumped sections of bank. 2012: No observed change. [2012 Site ID: BER_1-9_L]	38.955070 °	38.954227 °	19		
								-121.549528 °	-121.550592 °	Y	
								DWR ID:			
28	11.29	11.32	Earthen Levee	Vegetation	LS Ma	M	V4 : Elderberries are blocking visibility and flood fight capability.	38.953367 °	38.953025 °	22	
								-121.551428 °	-121.551808 °	Y	
								DWR ID: DWR_RD1001_03_s_2012_22			
29	11.46	11.61	Earthen Levee	Trim / Thin Trees	WS Ma	M	T1 : Trim trees to at least five feet above ground level.	38.951727 °	38.951187 °	60	
								-121.553513 °	-121.556143 °	Y	
								DWR ID: DWR_RD1001_03_s_2012_60			

* Location
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WS : Water Side
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End								Start	End
30	11.66	11.66	Earthen Levee	Encroachments	CR	M	FW : Firewood En			38.951300 °	38.951300 ° 61
										-121.556960 °	-121.556960 °
										DWR ID: DWR_RD1001_03_s_2012_61	
31	12.13	12.22	Supplemental USACE Erosion Survey	WS	M	Ma	Inspector Comments: 2006 - Multiple rotational failures in the berm. Erosion is into the levee toe and lower slope. Tension cracks extensive at top of bank. Cohesive toe creates a bench on which failures occur. 2007 - Still steep bank with some berm with pistol-butted reeds. 2012: Site extended upstream due to additional slumping. [2012 Site ID: BER_0-8_L]			38.947591 °	38.946477 ° 21
										-121.563390 °	-121.564094 ° Y
32	12.24	12.24	Earthen Levee	Vegetation	LS	M	V4 : Elderberries are blocking visibility and flood fight Ma capability.			38.946248 °	38.946248 ° 27
										-121.564220 °	-121.564220 ° Y
										DWR ID: DWR_RD1001_03_s_2012_27	

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	10/10/2012 10/10/2012	Clay Thomas

Levee Mile Report Line	2
Start Levee Mile	0.10
End Levee Mile	0.10
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
RD 1001 Unit 3 - Slope damage - vehicle	
cathom_f_20120912_125.JPG	



Levee Mile Report Line	3
Start Levee Mile	0.14
End Levee Mile	6.66
Location	Water Side
Category	Earthen Levee
Item	Vegetation
This photo shows the waterside slope at levee mile 0.00.	
cathom_f_20121106_230.JPG	



Levee Mile Report Line	4
Start Levee Mile	0.14
End Levee Mile	7.30
Location	Land Side
Category	Earthen Levee
Item	Vegetation
This photo shows the landside slope at levee mile 0.00.	
cathom_f_20121106_231.JPG	



* Location
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	10/10/2012 10/10/2012	Clay Thomas

Levee Mile Report Line	5
Start Levee Mile	1.06
End Levee Mile	1.06
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
RD 1001 Unit 3 - Slope damage	
cathom_f_20120912_111.JPG	



Levee Mile Report Line	7
Start Levee Mile	1.21
End Levee Mile	1.77
Location	Water Side
Category	Earthen Levee
Item	Encroachments
RD 1001 Unit 3 - Power Poles along W/S shoulder.	
cathom_f_20120912_109.JPG	



Levee Mile Report Line	8
Start Levee Mile	1.47
End Levee Mile	1.47
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
RD 1001 Unit 3 - Crown subsidence due to vehicle traffic.	
cathom_f_20120912_110.JPG	



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	10/10/2012 10/10/2012	Clay Thomas

Levee Mile Report Line	9
Start Levee Mile	2.96
End Levee Mile	3.32
Location	Land Side
Category	Earthen Levee
Item	Encroachments
RD 1001 Unit 3 - Pruning Pile	
cathom_f_20120912_127.JPG	



Levee Mile Report Line	10
Start Levee Mile	3.54
End Levee Mile	3.54
Location	Land Side
Category	Earthen Levee
Item	Vegetation
RD 1001 Unit 3 - L/S slope -Elderberries	
cathom_f_20120912_131.JPG	



Levee Mile Report Line	11
Start Levee Mile	3.80
End Levee Mile	3.96
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Levee mile 3.80, this photo is looking at the debris on the landside slope and toe.	
cathom_f_20120912_112.jpg	



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**Flood Control Project Maintenance**  
**Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	10/10/2012 10/10/2012	Clay Thomas

Levee Mile Report Line	12
Start Levee Mile	3.85
End Levee Mile	3.85
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Levee mile 3.85, debris on the levee toe and slope.	
cathom_f_20121106_232.JPG	



Levee Mile Report Line	14
Start Levee Mile	4.12
End Levee Mile	4.20
Location	Land Side
Category	Earthen Levee
Item	Vegetation
RD 1001 Unit 3 - L/S slope - Landscaping	
cathom_f_20120912_116.JPG	



Levee Mile Report Line	16
Start Levee Mile	4.29
End Levee Mile	4.29
Location	Land Side
Category	Earthen Levee
Item	Encroachments
RD 1001 Unit 3 - L/S slope - Debris	
cathom_f_20120912_118.JPG	



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	10/10/2012 10/10/2012	Clay Thomas

Levee Mile Report Line	17
Start Levee Mile	4.50
End Levee Mile	4.59
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Levee mile 4.54, this photo is looking at the prunings on the landside slope and toe.	
cathom_f_20120912_117.jpg	



Levee Mile Report Line	18
Start Levee Mile	4.68
End Levee Mile	4.68
Location	Land Side
Category	Earthen Levee
Item	Vegetation
RD 1001 Unit 3 - W/S slope -Elderberries	
cathom_f_20120912_128.JPG	



Levee Mile Report Line	20
Start Levee Mile	4.85
End Levee Mile	4.85
Location	Land Side
Category	Earthen Levee
Item	Vegetation
RD 1001 Unit 3 - L/S slope -Elderberries	
cathom_f_20120912_132.JPG	



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	10/10/2012 10/10/2012	Clay Thomas

Levee Mile Report Line	24
Start Levee Mile	7.21
End Levee Mile	7.30
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1



USACE2012\_BER\_5-7\_L\_1.jpg

Levee Mile Report Line	24
Start Levee Mile	7.21
End Levee Mile	7.30
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2



USACE2012\_BER\_5-7\_L\_2.jpg

Levee Mile Report Line	24
Start Levee Mile	7.21
End Levee Mile	7.30
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3



USACE2012\_BER\_5-7\_L\_3.jpg



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**Flood Control Project Maintenance**  
**Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	10/10/2012 10/10/2012	Clay Thomas

Levee Mile Report Line	24
Start Levee Mile	7.21
End Levee Mile	7.30
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #4



USACE2012\_BER\_5-7\_L\_4.jpg

Levee Mile Report Line	26
Start Levee Mile	10.37
End Levee Mile	10.41
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1
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USACE2012\_BER\_2-5\_L\_1.jpg

Levee Mile Report Line	26
Start Levee Mile	10.37
End Levee Mile	10.41
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2
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USACE2012\_BER\_2-5\_L\_2.jpg

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**Flood Control Project Maintenance**  
**Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	10/10/2012 10/10/2012	Clay Thomas

Levee Mile Report Line	26
Start Levee Mile	10.37
End Levee Mile	10.41
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #3	
USACE2012_BER_2-5_L_3.jpg	



Levee Mile Report Line	27
Start Levee Mile	11.09
End Levee Mile	11.17
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #1	
USACE2012_BER_1-9_L_1.jpg	



Levee Mile Report Line	27
Start Levee Mile	11.09
End Levee Mile	11.17
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #2	
USACE2012_BER_1-9_L_2.jpg	



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	10/10/2012 10/10/2012	Clay Thomas

Levee Mile Report Line	27
Start Levee Mile	11.09
End Levee Mile	11.17
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #3	
USACE2012_BER_1-9_L_3.jpg	



Levee Mile Report Line	27
Start Levee Mile	11.09
End Levee Mile	11.17
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #4	
USACE2012_BER_1-9_L_4.jpg	



Levee Mile Report Line	28
Start Levee Mile	11.29
End Levee Mile	11.32
Location	Land Side
Category	Earthen Levee
Item	Vegetation
RD 1001 Unit 3 - L/S slope -Elderberries	
cathom_f_20120912_123.JPG	



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WS : Water Side
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	10/10/2012 10/10/2012	Clay Thomas

Levee Mile Report Line	29
Start Levee Mile	11.46
End Levee Mile	11.61
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

RD 1001 Unit 3 - W/S slope - Trim Trees

cathom\_f\_20120912\_130.JPG



Levee Mile Report Line	31
Start Levee Mile	12.13
End Levee Mile	12.22
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2012\_BER\_0-8\_L\_1.jpg



Levee Mile Report Line	31
Start Levee Mile	12.13
End Levee Mile	12.22
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2012\_BER\_0-8\_L\_2.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	10/10/2012 10/10/2012	Clay Thomas

Levee Mile Report Line	31
Start Levee Mile	12.13
End Levee Mile	12.22
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #3	
USACE2012_BER_0-8_L_3.jpg	



Levee Mile Report Line	32
Start Levee Mile	12.24
End Levee Mile	12.24
Location	Land Side
Category	Earthen Levee
Item	Vegetation
RD 1001 Unit 3 - L/S slope -Elderberries @ toe.	
cathom_f_20120912_124.JPG	



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
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A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2012 Levee Inspection Results**

**Reclamation District No. 1001 Nicolaus**

Waterway			Bank	Unit Miles
Unit No. 04 Feather River			Left	13.36
	Spring (March - May)	Summer (June - August)	(September - November) <b>Fall</b>	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>U</b>	
Date of Inspection	05/25/2012 - 05/25/2012		10/11/2012 - 10/11/2012	
DWR Inspector	Rick Burnett		Clay Thomas	
Accompanied By	Diane Fales		Diane Fales	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River								Left	13.36	10/11/2012 10/11/2012	Clay Thomas
LMR No.	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End		
1	0.03	1.72	Earthen Levee	Vegetation	WS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.941220 ° -121.567513 °	38.917153 ° -121.569994 °	14 Y	DWR ID: DWR_RD1001_04_s_2012_14
2	0.03	2.00	Earthen Levee	Vegetation	LS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.941220 ° -121.567521 °	38.913890 ° -121.572600 °	13 Y	DWR ID: DWR_RD1001_04_s_2012_13
3	0.25	0.25	Earthen Levee	Encroachments	WS En	M	TR : Tree or limb	38.937997 ° -121.567810 °	38.937997 ° -121.567810 °	145 Y	DWR ID: DWR_RD1001_04_s_2012_145
4	0.96	0.96	Earthen Levee	Animal Control	CR Ma	C	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Rodent hole and adjacent depression. Repair needed.	38.928135 ° -121.568072 °	38.928135 ° -121.568072 °	146 Y	DWR ID: DWR_RD1001_04_s_2012_146
5	2.78	2.78	Earthen Levee	Encroachments	WS En	C	TR : Tree or limb	38.904640 ° -121.579322 °	38.904640 ° -121.579322 °	147 Y	DWR ID: DWR_RD1001_04_s_2012_147
6	2.88	2.88	Earthen Levee	Encroachments	WS En	M	TR : Tree or limb	38.903512 ° -121.580457 °	38.903512 ° -121.580457 °	148 Y	DWR ID: DWR_RD1001_04_s_2012_148
7	3.21	3.23	Earthen Levee	Vegetation	LS En	U	V6 : Landscaping	38.899732 ° -121.584110 °	38.899590 ° -121.584398 °	31 Y	DWR ID: DWR_RD1001_04_s_2012_31
8	5.60	5.60	Earthen Levee	Vegetation	WS Ma	M	V4 : Elderberries are blocking visibility and flood fight capability.	38.877312 ° -121.613077 °	38.877312 ° -121.613077 °	149 Y	DWR ID: DWR_RD1001_04_s_2012_149
9	5.84	5.97	Supplemental USACE Erosion Survey	USACE Erosion	WS Ma	M	Inspector Comments: 2011 - Erosion pockets from tree popouts. Sections of the lower bank have slumped off. 2012: No observed change. [2012 Site ID: FHR_6-6_L]	38.874113 ° -121.615380 °	38.872373 ° -121.616504 °	1 Y	DWR ID:
10	6.47	6.57	Supplemental USACE Erosion Survey	USACE Erosion	WS Ma	M	Inspector Comments: 2011 - Tall slumping sections. Scour around trees has exposed most of the roots. 2012: No observed change. [2012 Site ID: FHR_6-0_L]	38.865875 ° -121.619983 °	38.864706 ° -121.620813 °	2 Y	DWR ID:
11	6.48	6.48	Earthen Levee	Vegetation	LS En	M	V6 : Landscaping	38.865653 ° -121.619742 °	38.865653 ° -121.619742 °	17 Y	DWR ID: DWR_RD1001_04_s_2012_17
12	6.63	6.88	Supplemental USACE Erosion Survey	USACE Erosion	WS Ma	M	Inspector Comments: 2011 - Large slumped sections on the lower bank. 2012: No observed change. [2012 Site ID: FHR_5-8_L]	38.863946 ° -121.621388 °	38.861558 ° -121.623316 °	4 Y	DWR ID:
13	6.64	6.64	Earthen Levee	Vegetation	LS Ma	M	V4 : Elderberries are blocking visibility and flood fight capability.	38.863700 ° -121.621198 °	38.863700 ° -121.621198 °	18 Y	DWR ID: DWR_RD1001_04_s_2012_18
14	6.73	6.73	Earthen Levee	Animal Control	LS Ma	C	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	38.862607 ° -121.621891 °	38.862607 ° -121.621891 °	10 Y	DWR ID: DWR_RD1001_04_s_2012_10

\* Location  
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CR : Crown

\*\* Rating  
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A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance**  
**Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River								Left	13.36	10/11/2012 10/11/2012	Clay Thomas
LMR No.	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End		
15	6.83	6.83	Earthen Levee	Encroachments	LS En	M PI : Pipe	Inspector Comments: pipe repair, slope damage.	38.861360 ° -121.622925 °	38.861360 ° -121.622925 °	8 Y	DWR ID: DWR_RD1001_04_f_2012_8
16	7.54	7.86	Supplemental USACE Erosion Survey	Erosion	WS Ma	M	Inspector Comments: 2000 - Steep bank off berm with some slumps and fallen trees, continued erosion. 2002 - Site lengthened upstream and downstream due to vertical bank along most of the reach. 2010 - Site extended upstream. 2011 - Minimal new erosion. 2012: Site extended upstream end, bank erosion continues to worsen. [2012 Site ID: FHR_5-0_L]	38.852394 ° -121.629231 °	38.848004 ° -121.630873 °	5 Y	DWR ID:
17	8.61	9.01	Supplemental USACE Erosion Survey	Erosion	WS Ma	M	Inspector Comments: 2006 - Sandy, silty bank with intermittent pockets of erosion. Rotational failure and tree pop outs are most of the problem. Some upper slope fluvial erosion. 2010 - Site extended upstream. The lower Feather may benefit from a regional repair. 2011 - Site combined with 3.6. Minimal new erosion. 2012: No observed change. [2012 Site ID: FHR_3-8_L]	38.836966 ° -121.634128 °	38.831498 ° -121.636371 °	6 Y	DWR ID:
18	8.72	8.72	Earthen Levee	Vegetation	LS Ma	M	V4 : Elderberries are blocking visibility and flood fight capability.	38.835766 ° -121.633966 °	38.835766 ° -121.633966 °	12 Y	DWR ID: DWR_RD1001_04_s_2012_12
19	9.74	9.74	Earthen Levee	Vegetation	WS En	M	V6 : Landscaping	38.833088 ° -121.635103 °	38.833088 ° -121.635103 °	21 Y	DWR ID: DWR_RD1001_04_s_2012_21
20	10.16	10.16	Earthen Levee	Slope Stability	WS Ma	C	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	38.816282 ° -121.637502 °	38.816282 ° -121.637502 °	150 Y	DWR ID: DWR_RD1001_04_s_2012_150
21	11.15	11.15	Earthen Levee	Vegetation	LS Ma	M	V4 : Elderberries are blocking visibility and flood fight capability.	38.802508 ° -121.632862 °	38.802508 ° -121.632862 °	22 Y	DWR ID: DWR_RD1001_04_s_2012_22
22	11.21	11.44	Supplemental USACE Erosion Survey	Erosion	WS Ma	M	Inspector Comments: 2000 - Site is relatively stable except for some toe erosion at the upstream end, recommend monitoring the upstream end. 2004 - Some new block failures (10ft deep) at the toe of the upstream end. 2007 - Some minor new slumping at the waterline. 2012: No observed change. [2012 Site ID: FHR_1-0_L]	38.800920 ° -121.633050 °	38.798165 ° -121.631939 °	7 Y	DWR ID:
23	11.32	11.32	Earthen Levee	Vegetation	LS Ma	M	V4 : Elderberries are blocking visibility and flood fight capability.	38.800112 ° -121.632242 °	38.800112 ° -121.632242 °	23 Y	DWR ID: DWR_RD1001_04_s_2012_23
24	11.68	11.85	Supplemental USACE Erosion Survey	Erosion	WS Ma	M	Inspector Comments: 1997- Deposits over top of cobble on the upper slope. 2000 - Old cobble site in poor shape; some toe retreat, but little change; steep bank. 2010 - Site extended upstream due to new toe erosion. 2012: Minor new erosion at toe. [2012 Site ID: FHR_0-6_L]	38.795455 ° -121.629903 °	38.793394 ° -121.628156 °	9 Y	DWR ID:

* Location
LS : Land Side
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** Rating	+ Issue Type
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A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
LMR No.	Levee Mile		Category	Item	* Location	* Rating	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End					Start	End	Photo		
25	12.40	12.49	Earthen Levee	Vegetation	LS	M	V4 : Elderberries are blocking visibility and flood fight capability.	Ma	38.787355 ° -121.621165 °	38.786507 ° -121.619837 °	24 Y
									DWR ID: DWR_RD1001_04_s_2012_24		
26	12.57	12.57	Earthen Levee	Encroachments	LS	U	BU : Building	En	38.786073 ° -121.618522 °	38.786073 ° -121.618522 °	25 Y
									DWR ID: DWR_RD1001_04_s_2012_25		
27	12.74	13.22	Earthen Levee	Vegetation	LS	M	V4 : Elderberries are blocking visibility and flood fight capability.	Ma	38.784513 ° -121.616045 °	38.781862 ° -121.607855 °	26 Y
									DWR ID: DWR_RD1001_04_s_2012_26		
28	12.76	13.21	Earthen Levee	Vegetation	WS	M	V4 : Elderberries are blocking visibility and flood fight capability.	Ma	38.784579 ° -121.615689 °	38.782150 ° -121.607918 °	11 Y
									DWR ID: DWR_RD1001_04_s_2012_11		
29	12.91	12.91	Earthen Levee	Trim / Thin Trees	WS	M	T1 : Trim trees to at least five feet above ground level.	Ma	38.783930 ° -121.612952 °	38.783930 ° -121.612952 °	151 Y
									DWR ID: DWR_RD1001_04_s_2012_151		

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/11/2012 10/11/2012	Clay Thomas

Levee Mile Report Line	1
Start Levee Mile	0.03
End Levee Mile	1.72
Location	Water Side
Category	Earthen Levee
Item	Vegetation

This photo shows the waterside vegetation at levee mile 0.00.

cathom\_f\_20121106\_237.JPG



Levee Mile Report Line	2
Start Levee Mile	0.03
End Levee Mile	2.00
Location	Land Side
Category	Earthen Levee
Item	Vegetation

This photo shows the landside vegetation at levee mile 0.00.

cathom\_f\_20121106\_238.JPG



Levee Mile Report Line	3
Start Levee Mile	0.25
End Levee Mile	0.25
Location	Water Side
Category	Earthen Levee
Item	Encroachments

RD 1001 Unit 4 - W/S slope - Limb

cathom\_f\_20120912\_173.JPG



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/11/2012 10/11/2012	Clay Thomas

Levee Mile Report Line	6
Start Levee Mile	2.88
End Levee Mile	2.88
Location	Water Side
Category	Earthen Levee
Item	Encroachments
RD 1001 Unit 4 - L/S slope - Limb/Wood Pile.	
cathom_f_20120912_176.JPG	



Levee Mile Report Line	7
Start Levee Mile	3.21
End Levee Mile	3.23
Location	Land Side
Category	Earthen Levee
Item	Vegetation
RD 1001 Unit 4 - L/S slope - Landscaping/Trees	
cathom_f_20120912_172.JPG	



Levee Mile Report Line	8
Start Levee Mile	5.60
End Levee Mile	5.60
Location	Water Side
Category	Earthen Levee
Item	Vegetation
RD 1001 Unit 4 - W/S slope - Elderberries	
cathom_f_20120912_177.JPG	



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/11/2012 10/11/2012	Clay Thomas

Levee Mile Report Line	9
Start Levee Mile	5.84
End Levee Mile	5.97
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1



USACE2012\_FHR\_6-6\_L\_1.jpg

Levee Mile Report Line	9
Start Levee Mile	5.84
End Levee Mile	5.97
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

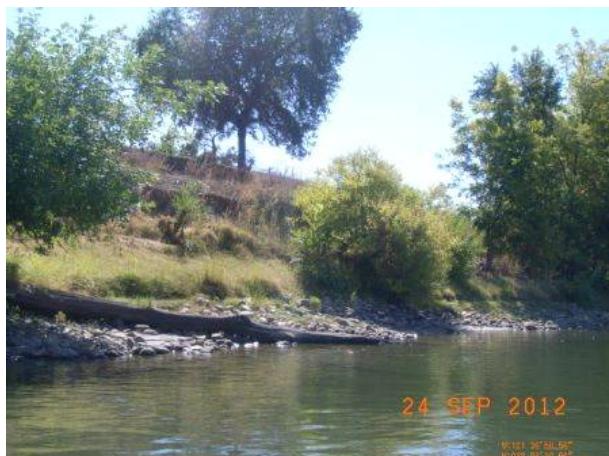
USACE 2012 Photo #2



USACE2012\_FHR\_6-6\_L\_2.jpg

Levee Mile Report Line	9
Start Levee Mile	5.84
End Levee Mile	5.97
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3



USACE2012\_FHR\_6-6\_L\_3.jpg

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**Flood Control Project Maintenance**  
**Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/11/2012 10/11/2012	Clay Thomas

Levee Mile Report Line	10
Start Levee Mile	6.47
End Levee Mile	6.57
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2012\_FHR\_6-0\_L\_1.jpg



USACE 2012 Photo #2

USACE2012\_FHR\_6-0\_L\_2.jpg



Landscaping on the landside shoulder and slope levee mile 6.48.

cathom\_f\_20120912\_153.jpg



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**Flood Control Project Maintenance**  
**Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/11/2012 10/11/2012	Clay Thomas

Levee Mile Report Line	11
Start Levee Mile	6.48
End Levee Mile	6.48
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Landscaping levee mile 6.48.	
cathom_f_20120912_154.jpg	



Levee Mile Report Line	12
Start Levee Mile	6.63
End Levee Mile	6.88
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #1	
USACE2012_FHR_5-8_L_1.jpg	



Levee Mile Report Line	12
Start Levee Mile	6.63
End Levee Mile	6.88
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #2	
USACE2012_FHR_5-8_L_2.jpg	



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/11/2012 10/11/2012	Clay Thomas

Levee Mile Report Line	12
Start Levee Mile	6.63
End Levee Mile	6.88
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3

USACE2012\_FHR\_5-8\_L\_3.jpg



Levee Mile Report Line	12
Start Levee Mile	6.63
End Levee Mile	6.88
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #4

USACE2012\_FHR\_5-8\_L\_4.jpg



Levee Mile Report Line	15
Start Levee Mile	6.83
End Levee Mile	6.83
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Levee mile 6.83, this pipe is being repaired.

cathom\_f\_20121106\_241.JPG



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LS : Land Side
WS : Water Side
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**Flood Control Project Maintenance**  
**Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/11/2012 10/11/2012	Clay Thomas

Levee Mile Report Line	16
Start Levee Mile	7.54
End Levee Mile	7.86
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2012\_FHR\_5-0\_L\_1.jpg



Levee Mile Report Line	16
Start Levee Mile	7.54
End Levee Mile	7.86
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2012\_FHR\_5-0\_L\_2.jpg



Levee Mile Report Line	16
Start Levee Mile	7.54
End Levee Mile	7.86
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3

USACE2012\_FHR\_5-0\_L\_3.jpg



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WS : Water Side
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/11/2012 10/11/2012	Clay Thomas

Levee Mile Report Line	16
Start Levee Mile	7.54
End Levee Mile	7.86
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #4

USACE2012\_FHR\_5-0\_L\_4.jpg



Levee Mile Report Line	16
Start Levee Mile	7.54
End Levee Mile	7.86
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #5

USACE2012\_FHR\_5-0\_L\_5.jpg



Levee Mile Report Line	17
Start Levee Mile	8.61
End Levee Mile	9.01
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2012\_FHR\_3-8\_L\_1.jpg



<b>* Location</b>
LS : Land Side
WS : Water Side
CR : Crown

<b>** Rating</b>
A : Acceptable
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C : Corrected
A/W : Acceptable but Monitor & Maintain

<b>+ Issue Type</b>
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/11/2012 10/11/2012	Clay Thomas

Levee Mile Report Line	17
Start Levee Mile	8.61
End Levee Mile	9.01
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2012\_FHR\_3-8\_L\_2.jpg



Levee Mile Report Line	17
Start Levee Mile	8.61
End Levee Mile	9.01
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3

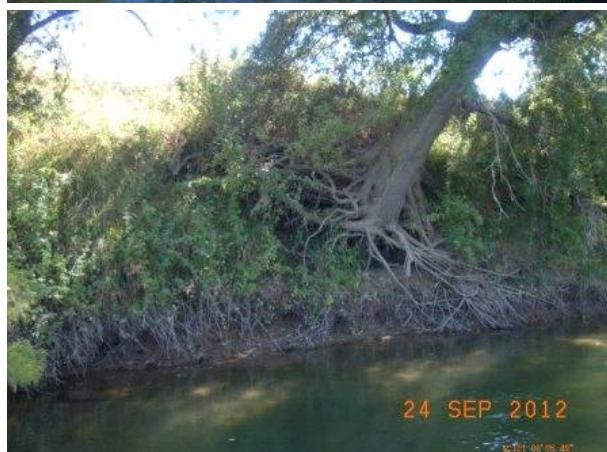
USACE2012\_FHR\_3-8\_L\_3.jpg



Levee Mile Report Line	17
Start Levee Mile	8.61
End Levee Mile	9.01
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #4

USACE2012\_FHR\_3-8\_L\_4.jpg



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/11/2012 10/11/2012	Clay Thomas

Levee Mile Report Line	17
Start Levee Mile	8.61
End Levee Mile	9.01
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #5

USACE2012\_FHR\_3-8\_L\_5.jpg



Levee Mile Report Line	17
Start Levee Mile	8.61
End Levee Mile	9.01
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #6

USACE2012\_FHR\_3-8\_L\_6.jpg



Levee Mile Report Line	17
Start Levee Mile	8.61
End Levee Mile	9.01
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #7

USACE2012\_FHR\_3-8\_L\_7.jpg



* Location
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CR : Crown

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C : Corrected

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance**  
**Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/11/2012 10/11/2012	Clay Thomas

Levee Mile Report Line	17
Start Levee Mile	8.61
End Levee Mile	9.01
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #8

USACE2012\_FHR\_3-8\_L\_8.jpg



Levee Mile Report Line	18
Start Levee Mile	8.72
End Levee Mile	8.72
Location	Land Side
Category	Earthen Levee
Item	Vegetation

RD 1001 Unit 4 - W/S slope - Elderberries

cathom\_f\_20120912\_143.JPG



Levee Mile Report Line	19
Start Levee Mile	9.74
End Levee Mile	9.74
Location	Water Side
Category	Earthen Levee
Item	Vegetation

RD 1001 Unit 4 - W/S slope -Landscaping/Trees

cathom\_f\_20120912\_163.JPG



<b>* Location</b>
LS : Land Side
WS : Water Side
CR : Crown

<b>** Rating</b>
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/11/2012 10/11/2012	Clay Thomas

Levee Mile Report Line	21
Start Levee Mile	11.15
End Levee Mile	11.15
Location	Land Side
Category	Earthen Levee
Item	Vegetation

RD 1001 Unit 4 - L/S slope - Elderberries

cathom\_f\_20120912\_164.JPG



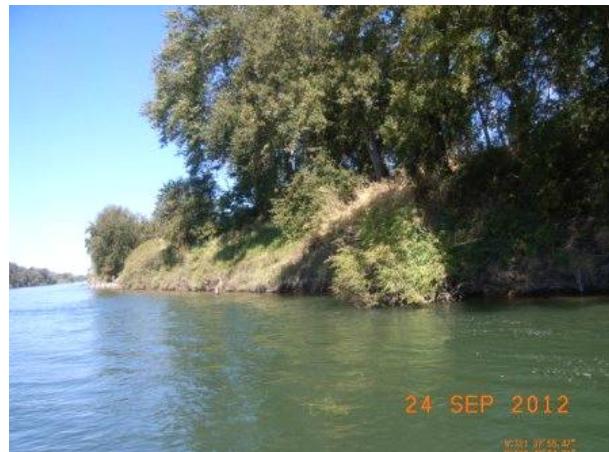
Levee Mile Report Line	22
Start Levee Mile	11.21
End Levee Mile	11.44
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

Levee Mile Report Line	22
Start Levee Mile	11.21
End Levee Mile	11.44
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2012\_FHR\_1-0\_L\_1.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/11/2012 10/11/2012	Clay Thomas

Levee Mile Report Line	22
Start Levee Mile	11.21
End Levee Mile	11.44
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3



USACE2012\_FHR\_1-0\_L\_3.jpg

Levee Mile Report Line	22
Start Levee Mile	11.21
End Levee Mile	11.44
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #4



USACE2012\_FHR\_1-0\_L\_4.jpg

Levee Mile Report Line	23
Start Levee Mile	11.32
End Levee Mile	11.32
Location	Land Side
Category	Earthen Levee
Item	Vegetation

RD 1001 Unit 4 - L/S slope - Elderberries



cathom\_f\_20120912\_165.JPG

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/11/2012 10/11/2012	Clay Thomas

Levee Mile Report Line	24
Start Levee Mile	11.68
End Levee Mile	11.85
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1



USACE2012\_FHR\_0-6\_L\_1.jpg

Levee Mile Report Line	24
Start Levee Mile	11.68
End Levee Mile	11.85
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2



USACE2012\_FHR\_0-6\_L\_2.jpg

Levee Mile Report Line	24
Start Levee Mile	11.68
End Levee Mile	11.85
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3



USACE2012\_FHR\_0-6\_L\_3.jpg

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LS : Land Side
WS : Water Side
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/11/2012 10/11/2012	Clay Thomas

Levee Mile Report Line	24
Start Levee Mile	11.68
End Levee Mile	11.85
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #4

USACE2012\_FHR\_0-6\_L\_4.jpg



Levee Mile Report Line	24
Start Levee Mile	11.68
End Levee Mile	11.85
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #5

USACE2012\_FHR\_0-6\_L\_5.jpg



Levee Mile Report Line	24
Start Levee Mile	11.68
End Levee Mile	11.85
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #6

USACE2012\_FHR\_0-6\_L\_6.jpg



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Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	10/11/2012 10/11/2012	Clay Thomas

Levee Mile Report Line	25
Start Levee Mile	12.40
End Levee Mile	12.49
Location	Land Side
Category	Earthen Levee
Item	Vegetation
RD 1001 Unit 4 - L/S slope - Elderberries	
cathom_f_20120912_166.JPG	



Levee Mile Report Line	27
Start Levee Mile	12.74
End Levee Mile	13.22
Location	Land Side
Category	Earthen Levee
Item	Vegetation
RD 1001 Unit 4 - W/S slope - Elderberries	
cathom_f_20120912_167.JPG	



Levee Mile Report Line	28
Start Levee Mile	12.76
End Levee Mile	13.21
Location	Water Side
Category	Earthen Levee
Item	Vegetation
RD 1001 Unit 4 - W/S slope - Elderberries	
cathom_f_20120912_142.JPG	



* Location
LS : Land Side
WS : Water Side
CR : Crown

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+ Issue Type
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Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2012 Levee Inspection Results**

**Reclamation District No. 1001 Nicolaus**

Waterway			Bank	Unit Miles
Unit No. 05 Natomas Cross Canal			Right	5.44
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	05/25/2012 - 05/25/2012		10/11/2012 - 10/11/2012	
DWR Inspector	Rick Burnett		Clay Thomas	
Accompanied By	Diane Fales		Diane Fales	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance**  
**Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector		
LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment			GPS Latitude/Longitude	Issue No.	
	Start	End					Start	End	Photo			
1	0.00	0.75	Earthen Levee	Encroachments	WS En	M	PO : Pole			38.781240 ° -121.605436 °	38.790073 ° -121.598159 °	2 Y
										DWR ID: DWR_RD1001_05_s_2012_2		
2	0.12	5.38	Earthen Levee	Vegetation	WS Ma	A	V1 : Control annual grass and weeds on the levee slopes and easements.			38.782771 ° -121.604871 °	38.830561 ° -121.530652 °	13 Y
										DWR ID: DWR_RD1001_05_f_2012_13		
3	0.12	5.38	Earthen Levee	Vegetation	LS Ma	A	V1 : Control annual grass and weeds on the levee slopes and easements.			38.782771 ° -121.604871 °	38.830562 ° -121.530652 °	4 Y
										DWR ID: DWR_RD1001_05_f_2012_4		
4	0.19	0.86	Earthen Levee	Encroachments	LS En	M	PO : Pole			38.783758 ° -121.604189 °	38.791058 ° -121.596562 °	5 Y
										DWR ID: DWR_RD1001_05_s_2012_5		
5	0.83	0.83	Earthen Levee	Encroachments	WS En	M	BU : Building			38.790830 ° -121.596973 °	38.790830 ° -121.596973 °	3 Y
										DWR ID: DWR_RD1001_05_s_2012_3		
6	1.15	1.15	Earthen Levee	Encroachments	LS En	M	PO : Pole			38.793613 ° -121.592230 °	38.793613 ° -121.592230 °	6 Y
										DWR ID: DWR_RD1001_05_s_2012_6		
7	2.31	2.31	Supplemental Survey	USACE Erosion	WS Ma	M	Inspector Comments: 2006 - Noted old saturation slumping of upper levee slope that is into the levee core (near high water line). 2011 - Erosion is into the top of the levee. This site is actually located at LM 2.5. 2012: Site is part of the extended inventory, last inspected 2011. [2012 Site ID: NCC_3-0_R]			38.804206 ° -121.574529 °	38.803877 ° -121.575053 °	14
										DWR ID:		
8	3.59	3.85	Earthen Levee	Encroachments	LS En	M	PO : Pole			38.814919 ° -121.556712 °	38.817178 ° -121.552965 °	7 Y
										DWR ID: DWR_RD1001_05_s_2012_7		
9	3.69	3.69	Earthen Levee	Encroachments	WSA/W Ma	EQ	: Equipment			38.815737 ° -121.555338 °	38.815737 ° -121.555338 °	8 Y
										DWR ID: DWR_RD1001_05_s_2012_8		
10	3.73	3.73	Earthen Levee	Encroachments	WSA/W Ma	EQ	: Equipment			38.816155 ° -121.554650 °	38.816155 ° -121.554650 °	9 Y
										DWR ID: DWR_RD1001_05_s_2012_9		
11	3.85	3.85	Earthen Levee	Encroachments	WSA/W Ma	EQ	: Equipment			38.817177 ° -121.552967 °	38.817177 ° -121.552967 °	11 Y
										DWR ID: DWR_RD1001_05_s_2012_11		
12	3.85	3.85	Earthen Levee	Encroachments	LS En	M	TA : Tank			38.817178 ° -121.552965 °	38.817178 ° -121.552965 °	10 Y
										DWR ID: DWR_RD1001_05_s_2012_10		
13	4.44	4.44	Earthen Levee	Encroachments	CR Ma	A/W	MA : Material			38.822198 ° -121.544053 °	38.822198 ° -121.544053 °	12 Y
										DWR ID: DWR_RD1001_05_s_2012_12		

\* Location  
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WS : Water Side  
CR : Crown

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+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.44	10/11/2012 10/11/2012	Clay Thomas

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.75
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Poles on the water side shoulder levee mile 0.00 - 0.75	cathom_f_20120912_179.jpg



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.75
Location	Water Side
Category	Earthen Levee
Item	Encroachments
RD 1001 Unit 5 - W/S Levee Shoulder - Poles	cathom_f_20120912_180.JPG



Levee Mile Report Line	2
Start Levee Mile	0.12
End Levee Mile	5.38
Location	Water Side
Category	Earthen Levee
Item	Vegetation
This photo is the waterside slope at levee mile 0.17	cathom_f_20121106_239.JPG



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.44	10/11/2012 10/11/2012	Clay Thomas

Levee Mile Report Line	3
Start Levee Mile	0.12
End Levee Mile	5.38
Location	Land Side
Category	Earthen Levee
Item	Vegetation
This photo is the landside slope at levee mile 0.17.	
cathom_f_20121106_240.JPG	



Levee Mile Report Line	4
Start Levee Mile	0.19
End Levee Mile	0.86
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Poles at the land side toe levee mile 0.19 - 0.86.	
cathom_f_20120912_183.jpg	



Levee Mile Report Line	4
Start Levee Mile	0.19
End Levee Mile	0.86
Location	Land Side
Category	Earthen Levee
Item	Encroachments
RD 1001 Unit 5 - L/S Levee Toe - Poles	
cathom_f_20120912_184.JPG	



* Location
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.44	10/11/2012 10/11/2012	Clay Thomas

Levee Mile Report Line	5
Start Levee Mile	0.83
End Levee Mile	0.83
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Pump house on the water side levee mile 0.83.	
cathom_f_20120912_181.jpg	



Levee Mile Report Line	5
Start Levee Mile	0.83
End Levee Mile	0.83
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Pump house and Caretakers home levee mile 0.83	
cathom_f_20120912_182.jpg	



Levee Mile Report Line	6
Start Levee Mile	1.15
End Levee Mile	1.15
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Pole on land side shoulder levee mile 1.15.	
cathom_f_20120912_185.jpg	



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+ Issue Type
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En : Enforcement

**Flood Control Project Maintenance**  
**Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.44	10/11/2012 10/11/2012	Clay Thomas

Levee Mile Report Line	6
Start Levee Mile	1.15
End Levee Mile	1.15
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Pole on land side shoulder.	
cathom_f_20120912_186.jpg	



Levee Mile Report Line	8
Start Levee Mile	3.59
End Levee Mile	3.85
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Poles on the land side shoulder levee mile 3.59 - 3.85.	
cathom_f_20120912_187.jpg	



Levee Mile Report Line	9
Start Levee Mile	3.69
End Levee Mile	3.69
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Pump water side levee mile 3.69.	
cathom_f_20120912_188.jpg	



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.44	10/11/2012 10/11/2012	Clay Thomas

Levee Mile Report Line	10
Start Levee Mile	3.73
End Levee Mile	3.73
Location	Water Side
Category	Earthen Levee
Item	Encroachments
RD 1001 Unit 5 - W/S slope -Equipment & Portable Tank	
cathom_f_20120912_189.JPG	



Levee Mile Report Line	12
Start Levee Mile	3.85
End Levee Mile	3.85
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Storage tank on land side slope levee mile 3.85.	
cathom_f_20120912_190.jpg	



Levee Mile Report Line	13
Start Levee Mile	4.44
End Levee Mile	4.44
Location	Crown
Category	Earthen Levee
Item	Encroachments
Levee stops at hwy 70 and starts again on the other side of hwy 70.	
cathom_f_20120912_191.jpg	



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WS : Water Side
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2012 Levee Inspection Results**

**Reclamation District No. 1001 Nicolaus**

Waterway			Bank	Unit Miles
Unit No. 06 East Side Canal			Right	4.80
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	05/25/2012 - 05/25/2012		10/11/2012 - 10/11/2012	
DWR Inspector	Rick Burnett		Clay Thomas	
Accompanied By	Diane Fales		Diane Fales	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

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- a) completion of the inspection
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If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
LMR No.	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End		
1	0.06	4.73	Earthen Levee	Vegetation	LS Ma	A	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.831695 °	38.896327 °	2	
								-121.529015 °	-121.520548 °	Y	
								DWR ID: DWR_RD1001_06_f_2012_2			
2	0.06	4.73	Earthen Levee	Vegetation	WS Ma	A	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.831698 °	38.896327 °	11	
								-121.529013 °	-121.520547 °	Y	
								DWR ID: DWR_RD1001_06_f_2012_11			
3	0.95	0.95	Earthen Levee	Encroachments	WS En	M	TA : Tank	38.844013 °	38.844013 °	46	
								-121.524320 °	-121.524320 °		
								DWR ID: DWR_RD1001_06_s_2012_46			
4	1.06	1.06	Earthen Levee	Vegetation	LS En	M	V6 : Landscaping	38.845643 °	38.845643 °	5	
								-121.524363 °	-121.524363 °	Y	
								DWR ID: DWR_RD1001_06_s_2012_5			
5	1.34	1.40	Earthen Levee	Trim / Thin Trees	LS Ma	C	T1 : Trim trees to at least five feet above ground level.	38.849695 °	38.850547 °	47	
								-121.524465 °	-121.524300 °		
								DWR ID: DWR_RD1001_06_s_2012_47			
6	1.37	1.37	Earthen Levee	Encroachments	LS En	M	EQ : Equipment	38.850042 °	38.850042 °	6	
								-121.524359 °	-121.524359 °	Y	
								DWR ID: DWR_RD1001_06_s_2012_6			
7	1.45	1.45	Earthen Levee	Encroachments	LS En	M	EQ : Equipment	38.851272 °	38.851272 °	3	
								-121.524357 °	-121.524357 °	Y	
								DWR ID: DWR_RD1001_06_s_2012_3			
8	1.48	1.48	Earthen Levee	Vegetation	LS Ma	C	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.851724 °	38.851724 °	9	
								-121.524518 °	-121.524518 °		
								DWR ID: DWR_RD1001_06_s_2012_9			
9	2.06	2.06	Earthen Levee	Slope Stability	CR Ma	M	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Subsidence due to traffic across levee crown.	38.860002 °	38.860002 °	8	
								-121.524873 °	-121.524873 °	Y	
								DWR ID: DWR_RD1001_06_s_2012_8			
10	3.79	3.79	Earthen Levee	Encroachments	LS En	M	PO : Pole	38.883875 °	38.883875 °	48	
								-121.524780 °	-121.524780 °	Y	
								DWR ID: DWR_RD1001_06_s_2012_48			
11	4.05	4.05	Earthen Levee	Slope Stability	CR Ma	M	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Levee crown subsided due to vehicle traffic across crown.	38.888821 °	38.888821 °	7	
								-121.524733 °	-121.524733 °	Y	
								DWR ID: DWR_RD1001_06_s_2012_7			
12	4.35	4.35	Earthen Levee	Slope Stability	CR Ma	C	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	38.893058 °	38.893058 °	4	
								-121.524705 °	-121.524705 °		
								DWR ID: DWR_RD1001_06_s_2012_4			
13	4.51	4.51	Earthen Levee	Vegetation	LS Ma	C	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.895287 °	38.895287 °	10	
								-121.524473 °	-121.524473 °		
								DWR ID: DWR_RD1001_06_s_2012_10			

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.80	10/11/2012 10/11/2012	Clay Thomas

Levee Mile Report Line	1
Start Levee Mile	0.06
End Levee Mile	4.73
Location	Land Side
Category	Earthen Levee
Item	Vegetation

This photo is the landside levee at levee mile 0.19.

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Levee Mile Report Line	2
Start Levee Mile	0.06
End Levee Mile	4.73
Location	Water Side
Category	Earthen Levee
Item	Vegetation

This photo is the waterside levee at levee mile 0.19.

cathom\_f\_20121106\_243.JPG



Levee Mile Report Line	4
Start Levee Mile	1.06
End Levee Mile	1.06
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Landscaping on the landside slope LM 1.06.

cathom\_f\_20120912\_194.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.80	10/11/2012 10/11/2012	Clay Thomas

Levee Mile Report Line	6
Start Levee Mile	1.37
End Levee Mile	1.37
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Equipment at the landside toe LM 1.37.	
cathom_f_20120912_195.jpg	



Levee Mile Report Line	7
Start Levee Mile	1.45
End Levee Mile	1.45
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Equipment at the landside toe LM 1.45.	
cathom_f_20120912_193.jpg	



Levee Mile Report Line	9
Start Levee Mile	2.06
End Levee Mile	2.06
Location	Crown
Category	Earthen Levee
Item	Slope Stability
RD 1001 Unit 6 - Levee Crown - Subsidence due to vehicle traffic.	
cathom_f_20120912_197.JPG	



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.80	10/11/2012 10/11/2012	Clay Thomas

Levee Mile Report Line	10
Start Levee Mile	3.79
End Levee Mile	3.79
Location	Land Side
Category	Earthen Levee
Item	Encroachments
RD 1001 Unit 6 - L/S Slope - Pole	
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Levee Mile Report Line	11
Start Levee Mile	4.05
End Levee Mile	4.05
Location	Crown
Category	Earthen Levee
Item	Slope Stability
RD 1001 Unit 6 - Levee Crown - Subsidence due to vehicle traffic.	
cathom_f_20120912_196.JPG	



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